

SEQUENCE LISTING

<110> Vaisvila, Romualdas
Morgan, Richard D.
Raleigh, Elisabeth

<120> Restriction Enzyme Gene Discovery Method

<130> NEB-165PUS

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<150> 60/089,101

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<150> PCT/US99/13295

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<160> 130

<170> PatentIn Ver. 2.0

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<210> 5

<211> 77

<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 5
atctaacaat tgggttcaagt cgctcgcttc gtcactcgg gaccggctaa agccggcccc 60
ttaaccaagc gttaggt 77

<210> 6
<211> 87
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 6
acctaacaat gcgctcaacc gcgctccctt cggtcgctgg acgctgcgcg ataaagccgc 60
gcagcgccgg ttagctctac gttaggt 87

<210> 7
<211> 88
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 7
gtctaacaat tgggttcaagt cgctcgcttc gtcactcgg gacgtccgca agctgcgctc 60
gcggcgcccc cttagccaaa cgttaggt 88

<210> 8
<211> 89
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 8
acctaacaat gcgctcaact gccgctcact tcgttcgctg gactcgcaaa agctgcgctt 60

ttgctcgccc gttagcttaa tcgtaggt

89

<210> 9

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 9

acctaacaat gcgctcaact gccgctcact tcgttcgctg gacagtcaaa agctgcgctt 60
ttgcctgccc gttagcttaa tcgtaggc 89

<210> 10

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 10

gcctaacaat gcgctcaaag cgctcacttc gttcgctggg accggcgaag ccggcccctt 60
agcttaatcg ttaggt 76

<210> 11

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 11

acctaacaac tggttcaagt cgttcgcttc gtcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gtaggc 77

<210> 12

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of

Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 12
gcctaacaat tggctcaagt cgttcgcttc gctcactcgg gaccggcgaa gccggcccct 60
tagccaaacg ttaggt 76

<210> 13
<211> 89
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 13
acctaacaat gcgctcaact gccgctcact tcgttcgctg gacagtcaaa agctgcgctt 60
ttgcctgccc gttagcttaa tcgttaggc 89

<210> 14
<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 14
gcctaacaag tggttcaaac cgttcgcttc gctcactggg acgggctaaa gcccgcccct 60
taaccaaacg ttaggc 76

<210> 15
<211> 89
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 15
ctctaacaat gcgctcaact atcgctcact tcgttcgctg gactcgcaaa agctgcgctt 60
ttgctcgccc gttagcttaa tcgttataa 89

<210> 16
<211> 77
<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 16

ttataacaat gcgctcaaat cggttcgcttc gctcactggg acgggctaaa gcccgccctt 60
tagcttaatc gttaaata 77

<210> 17

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 17

atttaacaat gcgctcaact gtcgctcact tcgttcgctg gacagccaaa agctgcgctt 60
ttgtctgccc gtttagcttaa tcgttaggg 89

<210> 18

<211> 78

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 18

ccctaacaaa tggttcaaag ccgttcgctt cgctcactcg ggaccggcta aagccggccc 60
cttaacacaaa cgtttagag 78

<210> 19

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 19

ctctaacaaa tggttcaagt cgctcgcttc gctcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gttaggc 77

<210> 20
<211> 88
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 20
gcctaacaac tcactcaacc tcgttcgctc cgctcactgg actcgcaaaa gctacgcttt 60
tgctcgccgg ttagctcaaa cgtaggc 88

<210> 21
<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 21
gccccaaaa tggttcaagt cgctcgctcc gctcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gtagggg 77

<210> 22
<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 22
ccctaactag tggttcaagc cgctcgcttc gctcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gtaggc 77

<210> 23
<211> 78
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 23
gcctaacaaa tggttcaagt cgttcgcttc gtcactgcg ggaccggcta aagccggccc 60
cttaaccaa cgtaggt 78

<210> 24
<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 24
acctaacaat tggttcaagt cgttcgcttc gtcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gtaggt 77

<210> 25
<211> 76
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 25
gcctaacaac tggttcaagt cactcgcttc gtcgcttcgg gaccggcata gccggccct 60
taaccaaac gtaggt 76

<210> 26
<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 26
gcctaacaat gcgttcaagt cgttcgcttc actcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gtaggt 77

<210> 27
<211> 90
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 27

acctaacaaa cggttcaagt tcgttcgctt cgctcactcc ggacgcccgc aagctacgct 60
cgcggtcgcc ccttaacctg tccgtaggc 90

<210> 28

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 28

gcctaacaat acgctcaact atcgctcact tcgttcgctg gacgtccaaa agctgcgctt 60
ttggccgccc gttagcttaa ccggttatgt 89

<210> 29

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 29

acataacaat gcgctcaact gccgctcact tcgttcgctg gacagccaaa agctacgctt 60
ttgcctgccc gttagcttaa tcgtaggc 89

<210> 30

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 30

gcctaacaag tcgctcaact gccgctcact ccgctcgctg gacagccaaa agctgcgctt 60
ttgtctgccc gttagcttaa tcgtaggc 89

<210> 31
<211> 89
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 31
gcctaacaat gcgctcaact atcgctcact ccgttcgctg gacgtccaaa agctgcgctt 60
ttggccgccc gttagcttaa tcgttaggc 89

<210> 32
<211> 76
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 32
gcctaacaac tggttcaagc cactcgcttc gctcgctcgg gaccgcgtac cgcggcccct 60
taaccaaagc ttgggc 76

<210> 33
<211> 78
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 33
gcccaacaaa cggttcaaga ccgctcgctt tgctcgctcg ggaccggcta aaaccggccc 60
cttaacaaa cgtaggg 78

<210> 34
<211> 75
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 34
gcctaacaac tggttcaa at cgctcgctcc gctcgctggg accggcgaag ccggccccctt 60
aaccaa acgt taggc 75

<210> 35
<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 35
gcctaacaat gcgctcaa ag cgctcacttc gttcgctggg accggcgaag ccggccccctt 60
agctta atcg ttaggt 76

<210> 36
<211> 89
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 36
acctaacaat gcgctcaact gtcgctcact tcgttcgctg gacagtcaaa agctgcgctt 60
ttgcctgccc gttagcttaa tcgttagcg 89

<210> 37
<211> 64
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 37
cgctaacaat tcgctgcagg cgcgacggcc ctgacggggc gcggcctgag ctcaa acgtt 60
ataa 64

<210> 38
<211> 78
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 38

ttataacaat tggttcaagt cgctcgcttc gtcactgcg ggaccggcta aagccggccc 60
cttaaccaa cgtaggc 78

<210> 39

<211> 78

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 39

gcctaacaaa tggttcaagt cgctcgcttc gtcattcgg gaccggctaa cgccggcccc 60
ttagcttaat cgtaggc 78

<210> 40

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 40

gcctaacaat aggttcaagt cgctcgcttc gtcacttgg gaccggctaa agccggcccc 60
ttaaccaaac gtaggt 77

<210> 41

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 41

acctaactag tggttcaagc cgctcgcttc gtcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gtaggc 77

<210> 42

<211> 76
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 42
atataacaat tggttcaaac cgttcgctgc gtcactggg acgggctaaa gcccgccct 60
taaccaaagc ttatgc 76

<210> 43
<211> 87
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 43
gcataacaat tggctcaagc cgctcgctcc gtcactcgg acgtccgtaa gctacgcttc 60
cgcccgcccc ttagccaaac gttaggg 87

<210> 44
<211> 78
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 44
ccctaacaaa tggttcaaag ccgttcgctt cgctcactcg ggaccggcta aagccggccc 60
cttaacaaa cgtaggc 78

<210> 45
<211> 89
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 45

gcctaacaat gcgctcaact gccgctcact tcgttcgctg gacagtcaaa agctgcgctt 60
ttgcctgccc gtttagcttaa tcgttagag 89

<210> 46
<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 46
ctctaacaat gcgctcaaat cgctcactac gttcgctggg accggctaaa gccggcccct 60
tagcttaatc gtttagag 77

<210> 47
<211> 78
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 47
ctctaacaat tggttcaagt cgttcgcttc gctcactgcg ggaccggcta aagccggccc 60
cttaacccaaa cgttaggg 78

<210> 48
<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 48
ccctaacaaa tggttcaagt cactcgcttc gctcgcttcgg gaccggctaa agccggcccc 60
ttaaccaaac gtttagag 77

<210> 49
<211> 78
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 49
ctctaacaac tgggttcaagt cgttcgcttc gctcactgcg ggaccggcta aagccggccc 60
cttaaccaa cgtaggc 78

<210> 50
<211> 88
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 50
atctaacaat tgggttcaagt cgttcgcttc gctcactcgg gacgtccaat agctgcgcta 60
ttggccgccc ctagccaaa cgtaggc 88

<210> 51
<211> 78
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 51
gcctaacaac tgggttcaagt cgttcgcttc gctcactgcg ggaccggcta aagccggccc 60
cttaaccaa cgtaggg 78

<210> 52
<211> 79
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 52
ccctaacaaa tgggttcaagt cgttccgctt cgctcactgc gggaccggct aatgccggcc 60
ccttaaccaa acgtaggc 79

<210> 53
<211> 89

<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 53

gcctaact gcagtcaacc ggacaccaa ctgtacgcag ttgggtccc tccgctgcgc 60
tccggtgccg gttactttca acgttaggc 89

<210> 54

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 54

gcctaacaat gcgctcaaag cgctcacttc gttcgctggg accggcgaag cccgccccctt 60
agcttaatcg ttagaa 76

<210> 55

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 55

ttctaactac tggttcaagt cgttcgcttc gctcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gtagcc 77

<210> 56

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 56

ggctaacaat gcgctcaact gtcgctcact tcgttcgctg gacagccaaa agctacgctt 60

ttgtctgccc gttagcttaa tcgtagga

89

<210> 57

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 57

gcctaacaac tgggtcaagc cactcacttc gctcgctcgg gaccgcgttc cgcgggccct 60
taaccaaacg ttgggc 76

<210> 58

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 58

gccaacaat gcgctcaact gccgctcact tcgttcgctg gacgtccaaa agctacgctt 60
ttggccgccc gttagcttaa tcgttatgc 89

<210> 59

<211> 78

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 59

gcataacaat tgattcaagt cgttcgcttc gctcactgcg ggaccggcta aagccggccc 60
cttaaccaaa cgtaggc 78

<210> 60

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of

Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 60

gcctaactac tggttcaagt cactcgcttc gctcgctcgg gaccgcgttc cgcggccct 60
taaccaaagc ttaggc 76

<210> 61

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 61

atctaacaat tggctcaagt cgctcgcttc gtcactcgg gaccggcgaa gccggccct 60
tagccaaagc ttatgc 76

<210> 62

<211> 87

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 62

gcataacaat tggctcaagc cgctcgctcc gtcactcgg acgtccgtaa gctacgttc 60
cggccgcccc ttagccaaac gttaggc 87

<210> 63

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 63

gcctaacaaa tggttcaagt cgctcgcttc gtcactcgg gaccggctaa agccggcccc 60
ttaaccaaagc gttaggc 77

<210> 64

<211> 72

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 64

gcctaactat tcagtcaagc ggacgcaaac cccgctgcg ggtctttgcg ccgcttatct 60
caagcgtag at 72

<210> 65

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 65

atctaacatg tggttcaagc cgctcgcttc gctcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gtagag 77

<210> 66

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 66

ctctaacaat tggttcaagc cgctcgcttc gctcgctcgg gatcggcgaa gccggcacct 60
taaccaaacg ttagag 76

<210> 67

<211> 78

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 67

ctctaacaat tggttcagat cgttcgcttc gctcactgcg ggaccggctg aagccggccc 60
cttaaccaa cgtaggc 78

<210> 68
<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 68
gcctaactac tgggtcaagt cgttcgcttc gctcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gttaggc 77

<210> 69
<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 69
gtctaacaat gcgctcaaag cgctcacttc gttcgctggg atcggctaaa gccggcccc 60
tagcttaatc gttagca 77

<210> 70
<211> 89
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 70
tgctaacaat gcgcttaact gtcgctcact tcgttcgctg gatagtcaaa agctgcgctt 60
ttgtctgtcc gttagcttaa tcgttaggc 89

<210> 71
<211> 74
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 71
gcctaacaac tggttcaaat cgctcgctcc gctcgctggg accggcatag ccggccctta 60
accaagcggt agat 74

<210> 72
<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 72
atctaacaat tggttaaaac cgttcgcttc gctcactggg accggctaaa gccggccctt 60
taaccaaagc ttaggt 76

<210> 73
<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 73
gtttaacaac tggttcaagc cgctcgcttc gctcactcgg gaccggctaa attcggcccc 60
ttagcaaagc ttaact 76

<210> 74
<211> 78
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 74
atctaacaat tggttcaagt cgctcgcttc gctcactcgg gaccggctaa agccggcccc 60
ttaaaccaag cgttatgc 78

<210> 75
<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 75

gtataacaat tgggttcaagt cactcgcttc gtcgctcgg gaccggctaa agccggcccc 60
ttaaccaaac gtttagat 77

<210> 76

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 76

gcataacaag tcgctcaaat cgctcacttc gtttcgctgg gacgggctaa agcccggcccc 60
ttagcttatt gttaggc 77

<210> 77

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 77

gcctaacaaa tgggttcaagc cgttcgcttc gtcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gtttagac 77

<210> 78

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 78

ctctaacaaa tgggttcaagc cgttcgcttc gtcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gtttagag 77

<210> 79
<211> 52
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 79
tcgcttcgct cactgcggga ccggctaaag ccggcccctt aaccaaact ta 52

<210> 80
<211> 43
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 80
taacaattgg ttcaagtcgt tcgcttcgct cactgcggga ccg 43

<210> 81
<211> 43
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 81
taactattca gtcaagcgga cgcaaaccgc gctgcgcggt ctt 43

<210> 82
<211> 43
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 82
taacaatgcg ctcaactgcg ctcaacttcgt tcgctggaca gcc 43

<210> 83
<211> 43
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 83
taacaagtgc ctcaactgcc gtcactcgt tcgctggaca gcc 43

<210> 84
<211> 19
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 84
gccccctaac caaacgtta 19

<210> 85
<211> 20
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 85
ccgagtgcgc gaagcgagcg 20

<210> 86
<211> 33
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 86

aaactcgagg gtcccgagtg agcgaagcga gcg

33

<210> 87

<211> 33

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 87

aaactcgagg gtcccgagcg agcgaagcga gcg

33

<210> 88

<211> 33

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 88

aaactcgagg ctgtccagcg agcgaagcga gcg

33

<210> 89

<211> 33

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 89

aaactcgaga ccgcgagcg gggtttgcgt ccg

33

<210> 90

<211> 31
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 90
tgctctagac ggccccttaa ccaaacgtta g

31

<210> 91
<211> 35
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 91
tgctctagac ggccgcccgt tagcttaatc gttag

35

<210> 92
<211> 60
<212> DNA
<213> Unknown

<220>

<223> Position 2 & 60 - Y = C or T; Position 51 & 59 -
R = A or G

<220>

<223> Description of Unknown Organism: Consensus
sequence

<400> 92
gyctaacaat tcgttcaagc cgacgccgct tcgcggcgcg gcttaactca rgcgttagry 60

<210> 93
<211> 7
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus

sequence

<220>

<223> Position 4, 5 & 6 - R = A or G; Position 7 - Y = C
or T

<400> 93

gttrrry

7

<210> 94

<211> 7

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
sequence

<220>

<223> Position 1 - R = A or G; Position 2, 3 & 4 - Y = C
or T

<400> 94

ryyyaac

7

<210> 95

<211> 6

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
sequence

<220>

<223> Position 5 - R = A or G; Position 6 - Y = C or T

<400> 95

ttagry

6

<210> 96

<211> 24

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 96
taacataccc ctgcgttaaa cggt 24

<210> 97
<211> 40
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Consensus
Sequence

<400> 97
taacagtcaa cgtcctcgtc ctgcgccctt acaacgtag 40

<210> 98
<211> 74
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Consensus
Sequence

<400> 98
ctaacaattg gttcaagtcg ctgcttcgc tcgctcggga ccggctaaag ccggcccctt 60
aaccaaacgt tagg 74

<210> 99
<211> 19
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 99
gccagatggc ggccgttta 19

<210> 100
<211> 5
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 100

tctac

5

<210> 101

<211> 33

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 101

gccctatgac agaaaacgct tttttgccgg ttt

33

<210> 102

<211> 10

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 102

ccaacgtccg

10

<210> 103

<211> 4

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 103

atag

4

<210> 104

<211> 9

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 104

tcatcgtcc

9

<210> 105

<211> 21

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 105

cccacgactt aacgcttgcc g

21

<210> 106

<211> 3

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 106

ata

3

<210> 107

<211> 28

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 107

tcagggaaaa ccgcgttttg ccgttcga

28

<210> 108

<211> 5

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 108

ctgaa

5

<210> 109

<211> 6

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 109

gatagg

6

<210> 110

<211> 4

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 110

tcta

4

<210> 111

<211> 5

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 111

actaa

5

<210> 112

<211> 18

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 112
gccagatgtc ggccgttt 18

<210> 113
<211> 36
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 113
gcctctatga tagtaaaagc gcttttttgt cggttt 36

<210> 114
<211> 6
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 114
cactga 6

<210> 115
<211> 5
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 115
aacta 5

<210> 116
<211> 8
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 116

ccattgga

8

<210> 117

<211> 30

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 117

taactactct cctcgagccg ccctccgtta

30

<210> 118

<211> 64

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 118

ctaacatggt tcaagcttcg ctactggga ccggctaaag ccggcccctt aaccaaacgt 60
tagg 64

<210> 119

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 119

gcctaacaat tggttcaagc cgttcgcttc gctcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gtaggc 77

<210> 120

<211> 32

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 120

aacgtcaacc tccgtctggc cggccttacg tt

32

<210> 121

<211> 50

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 121

aacaggttca acctcctcgc tctggggaccg ccggccctta ccaaacgttg

50

<210> 122

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 122

gcctaacaac tggttcaagt cgctcgtcttc gctcgtctcgg gaccggctaa agccggccccc 60
ttaaccaaac gttaggg 77

<210> 123

<211> 45

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 123

aacacgctaa ccgctcctcg tcgctggagc gcgtagcta cgta

45

<210> 124

<211> 75

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 124

ctaacaatgc gctcaactcg ctcaacttcgt tcgctggacc aaaagctcgc ttttggccccg 60
ttagcttaat cgta 75

<210> 125

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 125

acctaacaat gcgctcaact gtcgctcact tcgttcgctg gacagccaaa agctgcgctt 60
ttgcctgccc gttagcttaa tcgttaggc 89

<210> 126

<211> 49

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 126

taacacgctc aacgtcctcg tcctggggca agccgccctt agctcgta 49

<210> 127

<211> 64

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 127

taacaagcgc tcaaacgctc cttcgtcgct gggacggcaa gccgcccctt agcttaatcg 60
ttag 64

<210> 128

<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 128
gcctaacaat gcgctcaaag cgctcacttc gttcgctggg accggctaaa gccggccct 60
tagcttaatc gttaggt 77

<210> 129
<211> 78
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 129
gcctaacaat tggttcaagg tcgctcgctt cgctcactcg ggaccggcta aagccggccc 60
cttaaccaa cgtaggc 78

<210> 130
<211> 78
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 130
gcctaacaat tggttcaagg tcgctcgctt cgctcactcg ggaccggcta aagccggccc 60
cttaaccaa cgtaggc 78